

# **Healthcare-Associated Infections**

**Megan Davies, MD  
State Epidemiologist  
Division of Public Health**

# Background

- Between 5% to 10% acute care hospital patients acquire  $\geq$  one infection
- Approx. 2 million patients affected yearly in US
- Approx. 99,000 deaths yearly
- Estimated \$4.5 to \$5.7 billion yearly in patient care costs

# Background

- **Joint Study Committee on Hospital Infection Control and Disclosure**
  - Established by GA April 2008
  - Recommended implementation of a mandatory, state-operated statewide hospital-acquired infection surveillance and reporting system
    - Appropriate \$650,410 SFY 2009-2010 and \$517,410 SFY 2010-2011
  - Reestablish the Joint Study Committee to meet during interim periods of 2009-2010 biennium

# Background

- Then the economy happened
- American Recovery and Reinvestment Act (ARRA)
- Special Provision directing NC DHHS to apply for federal funds
- DPH applied and received \$1,659,130 award for 28 months (through 12/31/2011)

# Healthcare-Associated Infections Cooperative Agreement

- CDC is funding agency
- Three project activities
  - Coordination & Reporting of State HAI Prevention Efforts ("State Plan")
  - HAI Surveillance
  - Establishing Prevention Collaborative

# HAI PREVENTION PLAN

- **Five-year Strategic Plan**
- **Target Areas of Plan**
  - **HAI Program Infrastructure**
  - **Surveillance, Detection, Reporting, and Response**
  - **Prevention**
  - **Evaluation, Oversight, and Communication**

# Advisory Group

- Review the State HAI Plan
- Identify key issues within the plan's four target areas
- Provide feedback to DPH
- First meeting held January 14, 2010

# Advisory Group Composition

- General Assembly members
- NC Association for Professionals in Infection Control and Epidemiology
- Society for Healthcare Epidemiology of America
- NC Association of Local Health Directors
- NC Hospital Association
- Carolinas Center for Medical Excellence
- Statewide Program for Infection Control and Epidemiology
- Duke Infection Control Outreach Network
- NC Laboratory Response Forum
- NC Division of Health Services Regulation
- Consumer representative



# HAI Surveillance

- **Build on existing reporting systems**
  - National Healthcare Safety Network (NHSN)
  - NC System for Hospital Infections Measurement (NC SHIM)
- **NC SPICE**
  - Recruit new hospitals to use NHSN
  - Quality assessment of NHSN data
- **NC Quality Center**
  - Share aggregated NC SHIM data
- **NC DPH**
  - Analyze and use data to guide interventions

# Prevention Collaboratives

## ■ NC Quality Center

### ■ Ongoing collaboratives

#### ■ Surgical Care Improvement Project

- 51 hospitals

#### ■ Central-line Associated Bloodstream Infections

- 29 hospitals

### ■ New collaborative

#### ■ Catheter-Associated Urinary Tract Infections

- Target enrollment of 20-25 hospitals

# **Future**

## **North Carolina's Public Health Workforce Can Impact This Major Public Health Issue**

- **Decrease HAI morbidity and mortality**
- **Evidence-based data shows health care dollars can be saved**
- **Effort must be sustained**
- **Funding ends December 2011**